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Melville, New York, September 2002 AIP CONFERENCE PROCEEDINGS

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The text area covered by your writing is prescribed here and has to be followed exactly, while the margins vary depending on the stationery used. The text area should be roughly in the center of the page. Adjust your margins accordingly.

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- *Title of paper* 20 point size, **Bold, Cap/lower case**, centered. Place the title ½ inch (13 mm) below the top margin. Leave two blank spaces below the title line.
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- Author Affiliations and Addresses 10 point size, italic, Cap/lower case, centered. Leave three blank lines below the author addresses.
- *Abstract* Indent two spaces from the left and right margins. Use 10 point size, fully justified. Leave two blank lines below the abstract.
- *Paragraph style* Indent first line three spaces; no extra line spacing between paragraphs.
- Figure captions Use 10 point size.
- Footnotes and References Use 10 point size.

#### • Headings

#### FIRST-LEVEL HEADING

Use 14 point size, bold, all caps, centered

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(For font sizes and layout, see above)

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$$\frac{d[F_1]}{d\omega_2} = SAm_2 \cos \omega, \quad \frac{d[F_1]}{d\omega_2} = SAm_3 \cos \omega. \tag{1}$$

Equation (2) shows how to format a two-line equation.

$$\frac{d^2 \xi}{dt^2} - 2n \frac{d\eta}{dt} = \frac{dV}{d\xi} n^2 \xi,$$

$$\frac{d^2 \eta}{dt^2} - 2n \frac{d\xi}{dt} = \frac{dV}{d\eta} n^2 \eta.$$
(2)

#### **TABLES**

Number tables in the text with Arabic numerals. Give each table a concise title and define any abbreviations in footnotes to the table. Place tables at the top or bottom of the page, close to where they are first cited. Center the table in the width of the text area. **Fonts for the entire table are Times Roman, 10 point size**, including title and footnotes.

Table number and title are left-aligned above the table. Type the word "**TABLE 1.**" In bold caps followed by a period. The table title is normal font, caps and lower case.

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# Sailing Slow Solar Winds: New View from the Far Side of the Universe

Gary M. Larson\*, Georgios N. Ikaros<sup>†</sup>, John T. Ribald<sup>¶</sup>\*, and O. Susanne Hiquu<sup>¶</sup>

\*Laboratory for Astronomy and Solar Physics, NASA Goddard Space Flight Center, Greenbelt, MD 20771, USA

**Abstract.** Models of coronal mass ejection (CME) propagation and evolution in the solar wind, which range from simple one-dimensional fluid to three-dimensional MHD algorithms, continue to provide important insights into the dynamics of CMEs and are a valuable tool in the interpretation of interplanetary in situ observations. In this paper, we summarize and discuss the current state of knowledge with respect to these models. In particular, we highlight the structure of the ambient solar wind into which the CME propagates.

#### INTRODUCTION

A neutron monitor measures the flux of atmospheric neutrons in nuclear cascades initiated by primary cosmic rays with energies upwards of 1 GeV. At these energies, the typical effect of a coronal mass ejection (CME) is to suppress the intensity of ambient cosmic rays (of galactic origin) in the solar wind. This effect is called a "Forbush decrease."

Satellite measurements in the solar wind had already revealed that the interplanetary medium often exhibits disturbances in the form of transient shock waves, unusual plasma flows, and magnetic field variations [1]. Some of the post shock plasma flows showed high He<sup>2++</sup> fluxes, high magnetic field strengths, and smooth loop-like variations of the magnetic field direction.

#### **Second Level Heading (Heading 2)**

Satellite measurements in the solar wind had already revealed that the interplanetary medium often exhibits disturbances in the form of transient shock waves, unusual plasma flows, and magnetic field variations [2]. Some of the post shock plasma flows showed high He<sup>2++</sup> fluxes, high magnetic field strengths, and smooth loop-like variations of the magnetic field direction. See Fig. 1.

<sup>†</sup>Department of Physics, National Technical University, GR-10101 Athens, Greece \*Department of Astronomy, Yale University, P.O. Box 208101, New Haven, CT 06520-8101, USA

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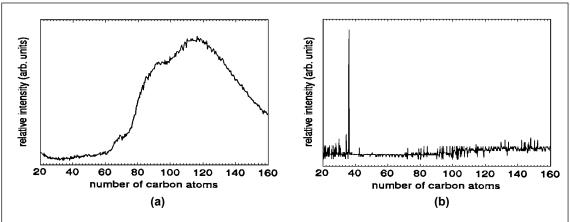
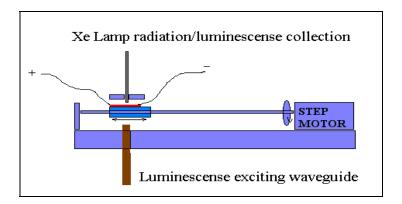


FIGURE 1. Mass spectrum for a) pure C<sub>36</sub> solid and b) K-doped C<sub>36</sub> solid.

Satellite measurements in the solar wind had already revealed that the interplanetary medium often exhibits disturbances in the form of transient shock waves, unusual plasma flows, and magnetic field variations [3]. Some of the post shock plasma flows showed high He<sup>2++</sup> fluxes, unusually low proton and electron signatures, high magnetic field strengths. Satellite measurements in the solar wind had already revealed that the inter-planetary medium often exhibits disturbances in the form of transient shock waves, unusual plasma flows, and magnetic field variations [4]. Satellite measurements in the solar wind had already revealed that the inter-planetary medium often exhibits disturbances in the form of transient shock waves. As shown in Fig. 2, some of the post shock plasma flows showed high He<sup>2++</sup> fluxes, unusually low proton and electron signatures, high magnetic field strengths, and smooth loop-like variations of the magnetic field direction and are summarized in Table 1.



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TABLE 1. This is an Example of a Table Caption.				
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Equation (1) is placed here as an example:

$$\frac{d[F_1]}{d\omega_2} = SAm_2 \cos \omega, \quad \frac{d[F_1]}{d\omega_3} = SAm_3 \cos \omega. \tag{1}$$

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